ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 23, 2005

Report to:
Bill Merrill
Western Water and Land, Inc.
743 Horizon Ct. Suite 330
Grand Junction, CO 81506

Bill to:
Bill Merrill
Western Water and Land, Inc.
743 Horizon Court, Suite 330
Grand Junction, CO 81506

Project ID:
ACZ Project ID: L52094

Bill Merrill:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 07, 2005. This project has been assigned to ACZ's project number, L52094. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L52094. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 23, 2005. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

Sue Barkey 23/Aug/05

Sue Barkey, Project Manager, has reviewed and approved this report in its entirety.

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: UP-BKG

ACZ Sample ID: ***L52094-01***
Date Sampled: *05/06/05 11:15*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/23/05 1:51	jjr
Arsenic, total (3050)	M6020 ICP-MS	4.7		*	mg/Kg	0.3	1	07/23/05 1:51	jjr
Cadmium, total (3050)	M6020 ICP-MS	0.69		*	mg/Kg	0.06	0.3	07/23/05 1:51	jjr
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	6	08/04/05 2:39	jjc
Copper, total (3050)	M6010B ICP	9		*	mg/Kg	1	6	08/04/05 2:39	jjc
Iron, total (3050)	M6010B ICP	11200		*	mg/Kg	2	6	08/04/05 23:27	mea
Lead, total (3050)	M6010B ICP	10	B	*	mg/Kg	5	20	08/04/05 2:39	jjc
Manganese, total (3050)	M6010B ICP	509		*	mg/Kg	0.6	3	08/04/05 2:39	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.3	07/27/05 9:52	ak
Molybdenum, total (3050)	M6010B ICP	2	B		mg/Kg	1	6	08/04/05 23:27	mea
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	6	08/04/05 2:39	jjc
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.6	3	07/23/05 1:51	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 2:39	jjc
Uranium, total (3050)	M6020 ICP-MS	1.33		*	mg/Kg	0.06	0.3	07/23/05 1:51	jjr
Vanadium, total (3050)	M6010B ICP	15.8		*	mg/Kg	0.6	3	08/04/05 2:39	jjc
Zinc, total (3050)	M6010B ICP	31			mg/Kg	1	6	08/04/05 2:39	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.1		*	%	0.1	0.5	07/11/05 20:06	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 14:50	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 14:50	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 10:05	mtb-as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-01

ACZ Sample ID: ***L52094-02***
Date Sampled: *05/06/05 13:15*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/23/05 2:03	jjr
Arsenic, total (3050)	M6020 ICP-MS	22.2		*	mg/Kg	0.3	1	07/23/05 2:03	jjr
Cadmium, total (3050)	M6020 ICP-MS	1.47		*	mg/Kg	0.05	0.3	07/23/05 2:03	jjr
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/04/05 3:03	jjc
Copper, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/04/05 3:03	jjc
Iron, total (3050)	M6010B ICP	4960		*	mg/Kg	2	5	08/04/05 23:50	mea
Lead, total (3050)	M6010B ICP	29		*	mg/Kg	4	20	08/04/05 3:03	jjc
Manganese, total (3050)	M6010B ICP	116		*	mg/Kg	0.5	3	08/04/05 3:03	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.04	0.2	07/27/05 9:53	ak
Molybdenum, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/14/05 0:02	jjc
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/04/05 3:03	jjc
Selenium, total (3050)	M6020 ICP-MS	22.1		*	mg/Kg	0.5	3	07/23/05 2:03	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:03	jjc
Uranium, total (3050)	M6020 ICP-MS	479		*	mg/Kg	0.3	1	07/27/05 6:41	jag
Vanadium, total (3050)	M6010B ICP	1750		*	mg/Kg	0.5	3	08/04/05 3:03	jjc
Zinc, total (3050)	M6010B ICP	54			mg/Kg	1	5	08/04/05 3:03	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	07/11/05 20:13	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:05	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 15:05	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 11:10	mtb-as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: DUP

ACZ Sample ID: ***L52094-03***
Date Sampled: *05/06/05 00:00*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/23/05 2:22	jjr
Arsenic, total (3050)	M6020 ICP-MS	25.9		*	mg/Kg	0.3	1	07/23/05 2:22	jjr
Cadmium, total (3050)	M6020 ICP-MS	1.91		*	mg/Kg	0.05	0.3	07/23/05 2:22	jjr
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/04/05 3:07	jjc
Copper, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/04/05 3:07	jjc
Iron, total (3050)	M6010B ICP	4080		*	mg/Kg	2	5	08/04/05 23:54	mea
Lead, total (3050)	M6010B ICP	32		*	mg/Kg	4	20	08/04/05 3:07	jjc
Manganese, total (3050)	M6010B ICP	115		*	mg/Kg	0.5	3	08/04/05 3:07	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.2	07/27/05 9:55	ak
Molybdenum, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/14/05 0:06	jjc
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/04/05 3:07	jjc
Selenium, total (3050)	M6020 ICP-MS	12.4		*	mg/Kg	0.5	3	07/23/05 2:22	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:07	jjc
Uranium, total (3050)	M6020 ICP-MS	436		*	mg/Kg	0.5	3	07/27/05 6:58	jag
Vanadium, total (3050)	M6010B ICP	1720		*	mg/Kg	0.5	3	08/04/05 3:07	jjc
Zinc, total (3050)	M6010B ICP	56			mg/Kg	1	5	08/04/05 3:07	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	07/11/05 20:20	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:20	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 15:20	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 12:16	mtb-as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-02

ACZ Sample ID: ***L52094-04***
Date Sampled: *05/06/05 13:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	07/23/05 2:41	jjr
Arsenic, total (3050)	M6020 ICP-MS	23.7		*	mg/Kg	0.3	1	07/23/05 2:41	jjr
Cadmium, total (3050)	M6020 ICP-MS	1.47		*	mg/Kg	0.05	0.3	07/23/05 2:41	jjr
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/04/05 3:11	jjc
Copper, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/04/05 3:11	jjc
Iron, total (3050)	M6010B ICP	7180		*	mg/Kg	2	5	08/04/05 23:58	mea
Lead, total (3050)	M6010B ICP	24		*	mg/Kg	4	20	08/04/05 3:11	jjc
Manganese, total (3050)	M6010B ICP	164		*	mg/Kg	0.5	3	08/04/05 3:11	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.3	07/27/05 9:58	ak
Molybdenum, total (3050)	M6010B ICP	1	B		mg/Kg	1	5	08/14/05 0:11	jjc
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/04/05 3:11	jjc
Selenium, total (3050)	M6020 ICP-MS	20.5		*	mg/Kg	0.5	3	07/23/05 2:41	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:11	jjc
Uranium, total (3050)	M6020 ICP-MS	131		*	mg/Kg	0.3	1	07/27/05 7:22	jag
Vanadium, total (3050)	M6010B ICP	506		*	mg/Kg	0.5	3	08/04/05 3:11	jjc
Zinc, total (3050)	M6010B ICP	40			mg/Kg	1	5	08/04/05 3:11	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.4		*	%	0.1	0.5	07/11/05 20:26	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:25	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 15:25	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 12:49	mtb-as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-03

ACZ Sample ID: ***L52094-05***
Date Sampled: *05/06/05 14:10*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony (1312)	M6020 ICP-MS		U		mg/L	0.0004	0.002	07/27/05 1:13	scp
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/23/05 2:47	jjr
Arsenic (1312)	M6020 ICP-MS	0.0086			mg/L	0.0005	0.003	07/27/05 1:13	scp
Arsenic, total (3050)	M6020 ICP-MS	47.7		*	mg/Kg	0.3	1	07/23/05 2:47	jjr
Cadmium (1312)	M6020 ICP-MS		U		mg/L	0.0001	0.0005	07/27/05 1:13	scp
Cadmium, total (3050)	M6020 ICP-MS	1.15		*	mg/Kg	0.05	0.3	07/23/05 2:47	jjr
Chromium (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 13:50	mea
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/04/05 3:15	jjc
Copper (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 13:50	mea
Copper, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/04/05 3:15	jjc
Iron (1312)	M6010B ICP	0.07		*	mg/L	0.02	0.05	08/08/05 20:00	wfg
Iron, total (3050)	M6010B ICP	6160		*	mg/Kg	2	5	08/05/05 0:02	mea
Lead (1312)	M6010B ICP		U		mg/L	0.04	0.2	07/30/05 13:50	mea
Lead, total (3050)	M6010B ICP	12	B	*	mg/Kg	4	20	08/04/05 3:15	jjc
Manganese (1312)	M6010B ICP		U	*	mg/L	0.005	0.03	07/30/05 13:50	mea
Manganese, total (3050)	M6010B ICP	112		*	mg/Kg	0.5	3	08/04/05 3:15	jjc
Mercury (1312)	M7470A CVAA		UH	*	mg/L	0.0002	0.001	07/24/05 16:30	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.2	07/27/05 10:00	ak
Molybdenum (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 13:50	mea
Molybdenum, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/14/05 0:15	jjc
Nickel (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 13:50	mea
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/04/05 3:15	jjc
Selenium (1312)	M6020 ICP-MS	0.001	B		mg/L	0.001	0.005	07/27/05 1:13	scp
Selenium, total (3050)	M6020 ICP-MS	19.2		*	mg/Kg	0.5	3	07/23/05 2:47	jjr
Silver (1312)	M6020 ICP-MS		U		mg/L	5E-05	0.0003	07/27/05 1:13	scp
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:15	jjc
Uranium (1312)	M6020 ICP-MS	0.0065		*	mg/L	0.0001	0.0005	07/27/05 1:13	scp
Uranium, total (3050)	M6020 ICP-MS	108		*	mg/Kg	0.1	0.5	07/27/05 7:28	jag
Vanadium (1312)	M6010B ICP	0.093			mg/L	0.005	0.03	07/30/05 13:50	mea
Vanadium, total (3050)	M6010B ICP	531		*	mg/Kg	0.5	3	08/04/05 3:15	jjc
Zinc (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 13:50	mea
Zinc, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/04/05 3:15	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.6		*	%	0.1	0.5	07/11/05 20:33	as

** Please refer to Extended Qualifier Report for detail*

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-03

ACZ Sample ID: ***L52094-05***
Date Sampled: *05/06/05 14:10*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP							07/14/05 15:30	eds
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:30	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 13:21	mtb-as
Synthetic Precip. Leaching Procedure	M1312			*				07/18/05 10:08	as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-1

ACZ Sample ID: ***L52094-06***
Date Sampled: *05/06/05 16:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/23/05 2:54	jjr
Arsenic, total (3050)	M6020 ICP-MS	67.9		*	mg/Kg	0.3	1	07/23/05 2:54	jjr
Cadmium, total (3050)	M6020 ICP-MS	4.21		*	mg/Kg	0.05	0.3	07/23/05 2:54	jjr
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/04/05 3:19	jjc
Copper, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/04/05 3:19	jjc
Iron, total (3050)	M6010B ICP	9100		*	mg/Kg	2	5	08/05/05 0:06	mea
Lead, total (3050)	M6010B ICP	30		*	mg/Kg	4	20	08/04/05 3:19	jjc
Manganese, total (3050)	M6010B ICP	181		*	mg/Kg	0.5	3	08/04/05 3:19	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.2	07/27/05 10:01	ak
Molybdenum, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/14/05 0:19	jjc
Nickel, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/04/05 3:19	jjc
Selenium, total (3050)	M6020 ICP-MS	36.4		*	mg/Kg	0.5	3	07/23/05 2:54	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:19	jjc
Uranium, total (3050)	M6020 ICP-MS	411		*	mg/Kg	0.5	3	07/27/05 7:34	jag
Vanadium, total (3050)	M6010B ICP	1200		*	mg/Kg	0.5	3	08/04/05 3:19	jjc
Zinc, total (3050)	M6010B ICP	57			mg/Kg	1	5	08/04/05 3:19	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.9		*	%	0.1	0.5	07/11/05 20:40	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:35	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 15:35	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 13:54	mtb-as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-2

ACZ Sample ID: ***L52094-07***
Date Sampled: *05/06/05 17:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony (1312)	M6020 ICP-MS		U		mg/L	0.0004	0.002	07/27/05 1:40	scp
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/23/05 3:00	jjr
Arsenic (1312)	M6020 ICP-MS	0.0066			mg/L	0.0005	0.003	07/27/05 1:40	scp
Arsenic, total (3050)	M6020 ICP-MS	51.4		*	mg/Kg	0.3	1	07/23/05 3:00	jjr
Cadmium (1312)	M6020 ICP-MS		U		mg/L	0.0001	0.0005	07/27/05 1:40	scp
Cadmium, total (3050)	M6020 ICP-MS	0.95		*	mg/Kg	0.05	0.3	07/23/05 3:00	jjr
Chromium (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 14:04	mea
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/04/05 3:23	jjc
Copper (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 14:04	mea
Copper, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/04/05 3:23	jjc
Iron (1312)	M6010B ICP	0.16		*	mg/L	0.02	0.05	08/08/05 20:15	wfg
Iron, total (3050)	M6010B ICP	6900		*	mg/Kg	2	5	08/05/05 0:10	mea
Lead (1312)	M6010B ICP		U		mg/L	0.04	0.2	07/30/05 14:04	mea
Lead, total (3050)	M6010B ICP	12	B	*	mg/Kg	4	20	08/04/05 3:23	jjc
Manganese (1312)	M6010B ICP	0.005	B	*	mg/L	0.005	0.03	07/30/05 14:04	mea
Manganese, total (3050)	M6010B ICP	200		*	mg/Kg	0.5	3	08/04/05 3:23	jjc
Mercury (1312)	M7470A CVAA		UH	*	mg/L	0.0002	0.001	07/24/05 16:34	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.2	07/27/05 10:02	ak
Molybdenum (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 14:04	mea
Molybdenum, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/14/05 0:23	jjc
Nickel (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 14:04	mea
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/04/05 3:23	jjc
Selenium (1312)	M6020 ICP-MS		U		mg/L	0.001	0.005	07/27/05 1:40	scp
Selenium, total (3050)	M6020 ICP-MS	3.0		*	mg/Kg	0.5	3	07/23/05 3:00	jjr
Silver (1312)	M6020 ICP-MS		U		mg/L	5E-05	0.0003	07/27/05 1:40	scp
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:23	jjc
Uranium (1312)	M6020 ICP-MS	0.0010		*	mg/L	0.0001	0.0005	07/27/05 1:40	scp
Uranium, total (3050)	M6020 ICP-MS	27.40		*	mg/Kg	0.05	0.3	07/23/05 3:00	jjr
Vanadium (1312)	M6010B ICP	0.007	B		mg/L	0.005	0.03	07/30/05 14:04	mea
Vanadium, total (3050)	M6010B ICP	97.4		*	mg/Kg	0.5	3	08/04/05 3:23	jjc
Zinc (1312)	M6010B ICP		U		mg/L	0.01	0.05	07/30/05 14:04	mea
Zinc, total (3050)	M6010B ICP	20			mg/Kg	1	5	08/04/05 3:23	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.2		*	%	0.1	0.5	07/11/05 20:46	as

** Please refer to Extended Qualifier Report for detail*

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-2

ACZ Sample ID: ***L52094-07***
Date Sampled: *05/06/05 17:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP							07/14/05 15:40	eds
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:40	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 14:27	mtb-as
Synthetic Precip. Leaching Procedure	M1312			*				07/18/05 10:51	as

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Inorganic Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-3

ACZ Sample ID: ***L52094-08***
Date Sampled: *05/06/05 18:10*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	07/23/05 3:06	jjr
Arsenic, total (3050)	M6020 ICP-MS	104		*	mg/Kg	0.3	1	07/23/05 3:06	jjr
Cadmium, total (3050)	M6020 ICP-MS	5.44		*	mg/Kg	0.05	0.3	07/23/05 3:06	jjr
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/04/05 3:27	jjc
Copper, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	08/04/05 3:27	jjc
Iron, total (3050)	M6010B ICP	10000		*	mg/Kg	2	5	08/05/05 0:14	mea
Lead, total (3050)	M6010B ICP	18	B	*	mg/Kg	4	20	08/04/05 3:27	jjc
Manganese, total (3050)	M6010B ICP	234		*	mg/Kg	0.5	3	08/04/05 3:27	jjc
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.2	07/27/05 10:03	ak
Molybdenum, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/14/05 0:27	jjc
Nickel, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/04/05 3:27	jjc
Selenium, total (3050)	M6020 ICP-MS	14.6		*	mg/Kg	0.5	3	07/23/05 3:06	jjr
Silver, total (3050)	M6010B ICP		U	*	mg/Kg	1	3	08/04/05 3:27	jjc
Uranium, total (3050)	M6020 ICP-MS	129		*	mg/Kg	0.1	0.5	07/27/05 7:39	jag
Vanadium, total (3050)	M6010B ICP	523		*	mg/Kg	0.5	3	08/04/05 3:27	jjc
Zinc, total (3050)	M6010B ICP	41			mg/Kg	1	5	08/04/05 3:27	jjc

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.7		*	%	0.1	0.5	07/11/05 20:53	as

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Hot Plate	M3050B ICP-MS							07/14/05 15:45	eds
Digestion - Hot Plate	M3050B ICP							07/14/05 15:45	eds
Digestion - Hot Plate	M3050B for Rad Chem							07/14/05 15:00	mtb-as

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit, typically 5 times the MDL.
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calivation Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Antimony (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.02004		.02073	mg/L	103.4	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.0012	0.0012			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.0012	0.0012			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.00625	U	.00612	mg/L	97.9	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.00625	U	.00618	mg/L	98.9	75	125	0.98	20	
L52094-07DUP	DUP	07/27/05 2:00			U	U	mg/L				0	20	

Antimony, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193036													
WG193036ICV	ICV	07/22/05 23:49	MS050510-2	.02004		.0204	mg/L	101.8	90	110			
WG193036ICB	ICB	07/22/05 23:55				U	mg/L		-0.0012	0.0012			
WG192639PBS	PBS	07/23/05 1:32				U	mg/Kg		-0.6	0.6			
WG192639LCSS	LCSS	07/23/05 1:38	PCN22503	105		79.6	mg/Kg		0	234			
WG192639LCSSD	LCSSD	07/23/05 1:44	PCN22503	105		81	mg/Kg		0	234	1.7	20	
L52094-02MS	MS	07/23/05 2:10	MS050624-5	.66875	U	.42	mg/Kg	62.8	75	125			M2
L52094-02MSD	MSD	07/23/05 2:16	MS050624-5	.66875	U	.44	mg/Kg	65.8	75	125	4.65	20	M2

Arsenic (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.05		.05093	mg/L	101.9	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.0015	0.0015			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.0015	0.0015			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.05	.0086	.05483	mg/L	92.5	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.05	.0086	.05524	mg/L	93.3	75	125	0.74	20	
L52094-07DUP	DUP	07/27/05 2:00			.0066	.00676	mg/L				2.4	20	

Arsenic, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193036													
WG193036ICV	ICV	07/22/05 23:49	MS050510-2	.05		.05032	mg/L	100.6	90	110			
WG193036ICB	ICB	07/22/05 23:55				U	mg/L		-0.0015	0.0015			
WG192639PBS	PBS	07/23/05 1:32				U	mg/Kg		-0.9	0.9			
WG192639LCSS	LCSS	07/23/05 1:38	PCN22503	142		150.6	mg/Kg		113	171			
WG192639LCSSD	LCSSD	07/23/05 1:44	PCN22503	142		148.4	mg/Kg		113	171	1.5	20	
L52094-02MS	MS	07/23/05 2:10	MS050624-5	5.35	22.2	22.63	mg/Kg	8	75	125			M3
L52094-02MSD	MSD	07/23/05 2:16	MS050624-5	5.35	22.2	30.98	mg/Kg	164.1	75	125	31.15	20	M3 RD

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Cadmium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.05		.05023	mg/L	100.5	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.0003	0.0003			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.0003	0.0003			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.05	U	.04574	mg/L	91.5	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.05	U	.04603	mg/L	92.1	75	125	0.63	20	
L52094-07DUP	DUP	07/27/05 2:00			U	U	mg/L				0	20	

Cadmium, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193036													
WG193036ICV	ICV	07/22/05 23:49	MS050510-2	.05		.05037	mg/L	100.7	90	110			
WG193036ICB	ICB	07/22/05 23:55				U	mg/L		-0.0003	0.0003			
WG192639PBS	PBS	07/23/05 1:32				.12	mg/Kg		-0.15	0.15			
WG192639LCSS	LCSS	07/23/05 1:38	PCN22503	64.5		69.2	mg/Kg		52.6	76.4			
WG192639LCSSD	LCSSD	07/23/05 1:44	PCN22503	64.5		66.75	mg/Kg		52.6	76.4	3.6	20	
L52094-02MS	MS	07/23/05 2:10	MS050624-5	5.35	1.47	6.452	mg/Kg	93.1	75	125			
L52094-02MSD	MSD	07/23/05 2:16	MS050624-5	5.35	1.47	6.581	mg/Kg	95.5	75	125	1.98	20	

Chromium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.962	mg/L	98.1	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.01	0.01			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.01	0.01			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.509	mg/L	101.8	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.515	mg/L	103	75	125	1.17	20	
L52094-07DUP	DUP	07/30/05 14:07			U	-.0041	mg/L				0	20	

Chromium, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.923	mg/L	96.2	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	86.5		88.7	mg/Kg		67.9	105			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	86.5		89.1	mg/Kg		67.9	105	0.4	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	11	70.3	mg/Kg	102.2	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	11	71.1	mg/Kg	103.6	75	125	1.13	20	

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Copper (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.957	mg/L	97.9	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.01	0.01			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.01	0.01			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.511	mg/L	102.2	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.513	mg/L	102.6	75	125	0.39	20	
L52094-07DUP	DUP	07/30/05 14:07			U	.0018	mg/L				0	20	

Copper, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.956	mg/L	97.8	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	68.6		68.5	mg/Kg		56.5	80.7			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	68.6		68.8	mg/Kg		56.5	80.7	0.4	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	9	63.3	mg/Kg	93.6	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	9	64.3	mg/Kg	95.3	75	125	1.57	20	

Iron (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.983	mg/L	99.2	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.02	0.02			
WG193671													
WG193671ICV	ICV	08/08/05 19:36	II050720-1	2		2.022	mg/L	101.1	90	110			
WG193671ICB	ICB	08/08/05 19:40				U	mg/L		-0.02	0.02			
WG192754PBS	PBS	08/08/05 19:56				U	mg/L		-0.02	0.02			
L52094-05MS2	MS	08/08/05 20:07	II050712-2	1	.07	1.073	mg/L	100.3	75	125			
L52094-05MSD2	MSD	08/08/05 20:11	II050712-2	1	.07	1.064	mg/L	99.4	75	125	0.84	20	
L52094-07DUP	DUP	08/08/05 20:19			.16	.29	mg/L				57.8	20	RA

Iron, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193807													
WG193807ICV	ICV	08/04/05 22:51	II050720-1	2		1.961	mg/L	98.1	90	110			
WG193807ICB	ICB	08/04/05 22:55				U	mg/L		-0.02	0.02			
WG192639PBS	PBS	08/04/05 23:11				U	mg/Kg		-2	2			
WG192639LCSS	LCSS	08/04/05 23:15	PCN22503	13600		15050.4	mg/Kg		7640	19600			
WG192639LCSSD	LCSSD	08/04/05 23:19	PCN22503	13600		14625.6	mg/Kg		7640	19600	2.9	20	
L52094-01MS	MS	08/04/05 23:34	II050706-3	116	11200	12149.5	mg/Kg	818.5	75	125			M3
L52094-01MSD	MSD	08/04/05 23:46	II050706-3	116	11200	12546.7	mg/Kg	1160.9	75	125	3.22	20	M3

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Lead (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	4		3.89	mg/L	97.3	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.04	0.04			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.04	0.04			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	1	U	1.008	mg/L	100.8	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	1	U	1.035	mg/L	103.5	75	125	2.64	20	
L52094-07DUP	DUP	07/30/05 14:07			U	-.017	mg/L				0	20	

Lead, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	4		3.746	mg/L	93.7	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.04	0.04			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-4	4			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	93.6		95.6	mg/Kg		75.4	112			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	93.6		91	mg/Kg		75.4	112	4.9	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	116	10	111.8	mg/Kg	87.8	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	116	10	116.5	mg/Kg	91.8	75	125	4.12	20	

Manganese (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.9535	mg/L	97.7	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.005	0.005			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.005	0.005			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.5188	mg/L	103.8	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.5156	mg/L	103.1	75	125	0.62	20	
L52094-07DUP	DUP	07/30/05 14:07			.005	.0085	mg/L				51.9	20	RA

Manganese, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.9121	mg/L	95.6	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.005	0.005			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-0.5	0.5			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	501		512.94	mg/Kg		400	602			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	501		520.06	mg/Kg		400	602	1.4	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	509	536.8	mg/Kg	47.9	75	125			M3
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	509	594.01	mg/Kg	146.6	75	125	10.12	20	M3

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Mercury (1312) M7470A CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG192876													
WG192876ICV	ICV	07/24/05 12:16	II050705-6	.02		.01978	mg/L	98.9	90	110			
WG192876ICB	ICB	07/24/05 12:17				U	mg/L		-0.0002	0.0002			
WG193062													
WG193062LCSW	LCSW	07/24/05 16:28	II050721-3	.02		.02061	mg/L	103.1	85	115			
WG192754PBS	PBS	07/24/05 16:29				U	mg/Kg		-0.0002	0.0002			
L52094-05AS	AS	07/24/05 16:32	II050721-6	.005	U	.00511	mg/L	102.2	75	125			
L52094-05ASD	ASD	07/24/05 16:33	II050721-6	.005	U	.00517	mg/L	103.4	75	125	1.17	20	
L52094-07DUP	DUP	07/24/05 16:36			U	U	mg/L				0	20	

Mercury, total M7471A CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193166													
WG193166ICV	ICV	07/26/05 9:52	II050715-2	.02		.02014	mg/L	100.7	90	110			
WG193166ICB	ICB	07/26/05 9:53				U	mg/L		-0.0002	0.0002			
WG193257													
WG193257ICV	ICV	07/27/05 9:41	II050715-2	.02		.02024	mg/L	101.2	90	110			
WG193257ICB	ICB	07/27/05 9:42				U	mg/L		-0.0002	0.0002			
WG193257PBS	PBS	07/27/05 9:44				U	mg/Kg		-0.04	0.04			
WG193257LCSS	LCSS	07/27/05 9:45	PCN22503	2.8		2.694	mg/Kg		1.91	3.7			
WG193257LCSSD	LCSSD	07/27/05 9:46	PCN22503	2.8		2.889	mg/Kg		1.91	3.7	7	20	
L52031-02MS	MS	07/27/05 9:48	II050715-5	1.91	.12	2.114	mg/Kg	104.4	85	115			
L52031-02MSD	MSD	07/27/05 9:50	II050715-5	1.8	.12	1.992	mg/Kg	104	85	115	5.94	20	

Molybdenum (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.989	mg/L	99.5	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.01	0.01			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.01	0.01			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.517	mg/L	103.4	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.503	mg/L	100.6	75	125	2.75	20	
L52094-07DUP	DUP	07/30/05 14:07			U	.0026	mg/L				0	20	

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Molybdenum, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193807													
WG193807ICV	ICV	08/04/05 22:51	II050720-1	2		2.023	mg/L	101.2	90	110			
WG193807ICB	ICB	08/04/05 22:55				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 23:11				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 23:15	PCN22503	39		43.2	mg/Kg		30.9	47.1			
WG192639LCSSD	LCSSD	08/04/05 23:19	PCN22503	39		42.8	mg/Kg		30.9	47.1	0.9	20	
L52094-01MS	MS	08/04/05 23:34	II050706-3	58	2	56.5	mg/Kg	94	75	125			
L52094-01MSD	MSD	08/04/05 23:46	II050706-3	58	2	57	mg/Kg	94.8	75	125	0.88	20	
WG194290													
WG194290ICV	ICV	08/13/05 23:03	II050809-3	2		1.968	mg/L	98.4	90	110			
WG194290ICB	ICB	08/13/05 23:08				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/13/05 23:24				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/13/05 23:29	PCN22503	39		42.5	mg/Kg		30.9	47.1			
WG192639LCSSD	LCSSD	08/13/05 23:33	PCN22503	39		43.1	mg/Kg		30.9	47.1	1.4	20	
L52094-01MS	MS	08/13/05 23:45	II050706-3	58	1	57.5	mg/Kg	97.4	75	125			
L52094-01MSD	MSD	08/13/05 23:50	II050706-3	58	1	57.6	mg/Kg	97.6	75	125	0.17	20	

Nickel (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.96	mg/L	98	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.01	0.01			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.01	0.01			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.511	mg/L	102.2	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.507	mg/L	101.4	75	125	0.79	20	
L52094-07DUP	DUP	07/30/05 14:07			U	-.00097	mg/L				0	20	

Nickel, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.888	mg/L	94.4	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	68.4		67.6	mg/Kg		55.8	81			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	68.4		68.7	mg/Kg		55.8	81	1.6	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	9	61.1	mg/Kg	89.8	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	9	61.8	mg/Kg	91	75	125	1.14	20	

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Selenium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.05		.0531	mg/L	106.2	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.003	0.003			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.003	0.003			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.05	.001	.0445	mg/L	87	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.05	.001	.0455	mg/L	89	75	125	2.22	20	
L52094-07DUP	DUP	07/27/05 2:00			U	U	mg/L				0	20	

Selenium, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193036													
WG193036ICV	ICV	07/22/05 23:49	MS050510-2	.05		.0523	mg/L	104.6	90	110			
WG193036ICB	ICB	07/22/05 23:55				U	mg/L		-0.003	0.003			
WG192639PBS	PBS	07/23/05 1:32				U	mg/Kg		-1.5	1.5			
WG192639LCSS	LCSS	07/23/05 1:38	PCN22503	124		127.1	mg/Kg		93.7	154			
WG192639LCSSD	LCSSD	07/23/05 1:44	PCN22503	124		127.5	mg/Kg		93.7	154	0.3	20	
L52094-02MS	MS	07/23/05 2:10	MS050624-5	5.35	22.1	11.29	mg/Kg	-202.1	75	125			M3
L52094-02MSD	MSD	07/23/05 2:16	MS050624-5	5.35	22.1	13.36	mg/Kg	-163.4	75	125	16.8	20	M3

Silver (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.02		.01917	mg/L	95.9	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.00015	0.00015			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.00015	0.00015			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.0125	U	.01164	mg/L	93.1	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.0125	U	.01172	mg/L	93.8	75	125	0.68	20	
L52094-07DUP	DUP	07/27/05 2:00			U	U	mg/L				0	20	

Silver, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	1		.939	mg/L	93.9	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	171		178.5	mg/Kg		105	237			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	171		183.2	mg/Kg		105	237	2.6	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	U	37.9	mg/Kg	65.3	75	125			M2
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	U	38.6	mg/Kg	66.6	75	125	1.83	20	M2

Solids, Percent CLPSOW390, PART F, D-98

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG192448													
WG192448PBS	PBS	07/11/05 20:00				.14	%		99.9	100.1			
L52094-08DUP	DUP	07/11/05 21:00			93.7	93.78	%				0.1	20	

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Uranium (1312) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193188													
WG193188ICV	ICV	07/26/05 21:49	MS050510-2	.05		.05335	mg/L	106.7	90	110			
WG193188ICB	ICB	07/26/05 21:55				U	mg/L		-0.0003	0.0003			
WG192754PBS	PBS	07/27/05 1:07				U	mg/L		-0.0003	0.0003			
L52094-05MS	MS	07/27/05 1:27	MS050524-3	.025	.0065	.03047	mg/L	95.9	75	125			
L52094-05MSD	MSD	07/27/05 1:33	MS050524-3	.025	.0065	.03068	mg/L	96.7	75	125	0.69	20	
L52094-07DUP	DUP	07/27/05 2:00			.001	.00124	mg/L				21.4	20	RC

Uranium, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193036													
WG193036ICV	ICV	07/22/05 23:49	MS050510-2	.05		.05452	mg/L	109	90	110			
WG193036ICB	ICB	07/22/05 23:55				U	mg/L		-0.0003	0.0003			
WG192639PBS	PBS	07/23/05 1:32				U	mg/Kg		-0.15	0.15			
L52094-02MS	MS	07/23/05 2:10	MS050624-5	2.675	477	2689.445	mg/Kg	82708.2	75	125			M3
L52094-02MSD	MSD	07/23/05 2:16	MS050624-5	2.675	477	520.074	mg/Kg	1610.2	75	125	135.2	20	M3 RD
WG193245													
WG193245ICV	ICV	07/27/05 5:53	MS050510-2	.05		.05428	mg/L	108.6	90	110			
WG193245ICB	ICB	07/27/05 5:59				U	mg/L		-0.0003	0.0003			
WG192639PBS	PBS	07/27/05 6:23				U	mg/Kg		-0.15	0.15			
L52094-02MS	MS	07/27/05 6:47	MS041014-2	2.675	479	2699.08	mg/Kg	82993.6	75	125			M3
L52094-02MSD	MSD	07/27/05 6:52	MS041014-2	2.675	479	512.53	mg/Kg	1253.5	75	125	136.2	20	M3 RD

Vanadium (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		1.9976	mg/L	99.9	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.005	0.005			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.005	0.005			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	.093	.6045	mg/L	102.3	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	.093	.5984	mg/L	101.1	75	125	1.01	20	
L52094-07DUP	DUP	07/30/05 14:07			.007	.0066	mg/L				5.9	20	

Vanadium, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.932	mg/L	96.6	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.005	0.005			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-0.5	0.5			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	82.4		86.9	mg/Kg		61.6	103			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	82.4		86.28	mg/Kg		61.6	103	0.7	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	15.8	78.27	mg/Kg	107.7	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	15.8	79.56	mg/Kg	109.9	75	125	1.63	20	

Western Water and Land, Inc.
Project ID:

ACZ Project ID: ***L52094***

Zinc (1312) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193444													
WG193444ICV	ICV	07/30/05 11:47	II050720-1	2		2.006	mg/L	100.3	90	110			
WG193444ICB	ICB	07/30/05 11:50				U	mg/L		-0.01	0.01			
WG193473													
WG192754PBS	PBS	07/30/05 13:47				U	mg/L		-0.01	0.01			
L52094-05MS2	MS	07/30/05 13:57	II050712-2	.5	U	.53	mg/L	106	75	125			
L52094-05MSD2	MSD	07/30/05 14:00	II050712-2	.5	U	.52	mg/L	104	75	125	1.9	20	
L52094-07DUP	DUP	07/30/05 14:07			U	.0071	mg/L				0	20	

Zinc, total (3050) M6010B ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG193753													
WG193753ICV	ICV	08/04/05 2:03	II050720-1	2		1.953	mg/L	97.7	90	110			
WG193753ICB	ICB	08/04/05 2:07				U	mg/L		-0.01	0.01			
WG192639PBS	PBS	08/04/05 2:23				U	mg/Kg		-1	1			
WG192639LCSS	LCSS	08/04/05 2:27	PCN22503	296		304.6	mg/Kg		235	357			
WG192639LCSSD	LCSSD	08/04/05 2:31	PCN22503	296		310.7	mg/Kg		235	357	2	20	
L52094-01MS	MS	08/04/05 2:47	II050706-3	58	31	85.5	mg/Kg	94	75	125			
L52094-01MSD	MSD	08/04/05 2:59	II050706-3	58	31	87.1	mg/Kg	96.7	75	125	1.85	20	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-01	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193036	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

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Inorganic Extended Qualifier Report

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-02	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-03	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

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ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-04	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

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ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-05	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193671	Iron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) exceeded limit; sample concentration is less than 10x the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193473	Manganese (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) exceeded limit; sample concentration is less than 10x the MDL.
	WG193753	Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193062	Mercury (1312)	M7470A CVAA	H3	Sample was received and analyzed past holding time.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193188	Uranium (1312)	M6020 ICP-MS	RC	For a solid matrix, the matrix duplicate precision assessment (RPD or RER) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG192754	Synthetic Precip. Leaching Procedure	M1312	H3	Sample was received and analyzed past holding time.

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ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-06	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

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ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-07	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193671	Iron (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) exceeded limit; sample concentration is less than 10x the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193473	Manganese (1312)	M6010B ICP	RA	Relative Percent Difference (RPD) exceeded limit; sample concentration is less than 10x the MDL.
	WG193753	Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193062	Mercury (1312)	M7470A CVAA	H3	Sample was received and analyzed past holding time.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193188	Uranium (1312)	M6020 ICP-MS	RC	For a solid matrix, the matrix duplicate precision assessment (RPD or RER) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193036	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG192754	Synthetic Precip. Leaching Procedure	M1312	H3	Sample was received and analyzed past holding time.

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Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-08	WG193036	Antimony, total (3050)	M6020 ICP-MS	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
		Arsenic, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Cadmium, total (3050)	M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
	WG193753	Copper, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193807	Iron, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6010B ICP	ZK	Target analyte detected in the blank as a negative result at or above the negative method limit (i.e. high negative bias). Sample concentration is at a minimum ten times greater than positive method reporting limit.
	WG193753	Lead, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
		Manganese, total (3050)	M6010B ICP	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193257	Mercury, total	M7471A CVAA	H3	Sample was received and analyzed past holding time.
	WG193753	Nickel, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.
	WG193036	Selenium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193753	Silver, total (3050)	M6010B ICP	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG193245	Uranium, total (3050)	M6020 ICP-MS	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
			M6020 ICP-MS	RD	For a solid matrix, the spike/spike duplicate RPD exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG193753	Vanadium, total (3050)	M6010B ICP	ZG	The ICP Serial Dilution was not evaluated because the sample concentration was less than 50 times the MDL.

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: UP-BKG
Locator:

ACZ Sample ID: ***L52094-01***
Date Sampled: *05/06/05 11:15*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:04	07/14/05 10:05	6.2	1.6	0.7	pCi/g	*	dbs
Gross Beta	07/22/05 0:04	07/14/05 10:05	6.7	1	1	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:24	07/14/05 10:05	1.6	0.5	0.9	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:10	07/14/05 10:05	1.7	1.7	4.4	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:00	07/14/05 10:05	0.4	0.28	0.29	pCi/g	*	dbs
Thorium 230	07/25/05 15:00	07/14/05 10:05	0.77	0.58	0.76	pCi/g	*	dbs
Thorium 232	07/25/05 15:00	07/14/05 10:05	0.6	0.51	0.29	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-01
Locator:

ACZ Sample ID: ***L52094-02***
Date Sampled: *05/06/05 13:15*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:05	07/14/05 11:10	940	17	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:05	07/14/05 11:10	430	6	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:26	07/14/05 11:10	320	5.6	0.9	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:12	07/14/05 11:10	2.9	1.5	3.6	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:02	07/14/05 11:10	0.62	0.29	0.26	pCi/g	*	dbs
Thorium 230	07/25/05 15:02	07/14/05 11:10	230	5.5	0.67	pCi/g	*	dbs
Thorium 232	07/25/05 15:02	07/14/05 11:10	0.8	0.49	0.26	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: DUP
Locator:

ACZ Sample ID: ***L52094-03***
Date Sampled: *05/06/05 0:00*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:07	07/14/05 12:16	820	16	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:07	07/14/05 12:16	340	5.4	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:27	07/14/05 12:16	78	1.9	0.4	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:13	07/14/05 12:16	3.3	1.4	3.5	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:03	07/14/05 12:16	0.69	0.28	0.34	pCi/g	*	dbs
Thorium 230	07/25/05 15:03	07/14/05 12:16	160	5.3	0.88	pCi/g	*	dbs
Thorium 232	07/25/05 15:03	07/14/05 12:16	1.27	0.67	0.34	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-02
Locator:

ACZ Sample ID: ***L52094-04***
Date Sampled: *05/06/05 13:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:08	07/14/05 12:49	200	7.9	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:08	07/14/05 12:49	82	2.7	1	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:29	07/14/05 12:49	54	2.6	1.1	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:15	07/14/05 12:49	2.3	1.2	3.4	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:05	07/14/05 12:49	0.5	0.27	0.31	pCi/g	*	dbs
Thorium 230	07/25/05 15:05	07/14/05 12:49	56	3	0.82	pCi/g	*	dbs
Thorium 232	07/25/05 15:05	07/14/05 12:49	0.68	0.56	0.31	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BFLY-03
Locator:

ACZ Sample ID: ***L52094-05***
Date Sampled: *05/06/05 14:10*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:10	07/14/05 13:21	290	9.7	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:10	07/14/05 13:21	130	3.3	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:30	07/14/05 13:21	66	2.6	0.9	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:16	07/14/05 13:21	2.7	1.3	3.4	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:06	07/14/05 13:21	0.19	0.24	0.28	pCi/g	*	dbs
Thorium 230	07/25/05 15:06	07/14/05 13:21	84	3.5	0.74	pCi/g	*	dbs
Thorium 232	07/25/05 15:06	07/14/05 13:21	0.45	0.48	0.28	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-1
Locator:

ACZ Sample ID: ***L52094-06***
Date Sampled: *05/06/05 16:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:11	07/14/05 13:54	520	12	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:11	07/14/05 13:54	230	4.4	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:32	07/14/05 13:54	130	4	1.1	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:18	07/14/05 13:54	3	1.3	3.3	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:08	07/14/05 13:54	0.46	0.28	0.2	pCi/g	*	dbs
Thorium 230	07/25/05 15:08	07/14/05 13:54	160	4	0.52	pCi/g	*	dbs
Thorium 232	07/25/05 15:08	07/14/05 13:54	0.82	0.41	0.2	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-2
Locator:

ACZ Sample ID: ***L52094-07***
Date Sampled: *05/06/05 17:50*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:12	07/14/05 14:27	47	3.5	0.5	pCi/g	*	dbs
Gross Beta	07/22/05 0:12	07/14/05 14:27	18	1.4	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:33	07/14/05 14:27	13	1.2	0.9	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:19	07/14/05 14:27	4.1	1.5	3.5	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:09	07/14/05 14:27	0.34	0.27	0.21	pCi/g	*	dbs
Thorium 230	07/25/05 15:09	07/14/05 14:27	9.7	1.1	0.55	pCi/g	*	dbs
Thorium 232	07/25/05 15:09	07/14/05 14:27	0.51	0.39	0.21	pCi/g	*	dbs

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RadioChemistry Analytical Results

Western Water and Land, Inc.
Project ID:
Sample ID: BUR-3
Locator:

ACZ Sample ID: ***L52094-08***
Date Sampled: *05/06/05 18:10*
Date Received: *07/07/05*
Sample Matrix: *Soil*

Gross Alpha & Beta (3050) M9310 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Gross Alpha	07/22/05 0:14	07/14/05 15:00	470	12	0.6	pCi/g	*	dbs
Gross Beta	07/22/05 0:14	07/14/05 15:00	150	3.7	0.9	pCi/g	*	dbs

Radium 226 (3050) M9315 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 226 (3050)	07/25/05 12:34	07/14/05 15:00	100	3.3	0.9	pCi/g	*	dbs

Radium 228 (3050) M9320 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Radium 228 (3050)	07/28/05 14:20	07/14/05 15:00	3.7	1.4	3.5	pCi/g		msh

Thorium, Isotopic (3050) ESM 4506 Prep Method: M3050B ICP

Parameter	Measure Date	Prep Date	Result	Error	LLD	Units	XQ	Analyst
Thorium 228	07/25/05 15:10	07/14/05 15:00	0.47	0.27	0.27	pCi/g	*	dbs
Thorium 230	07/25/05 15:10	07/14/05 15:00	88	3.5	0.71	pCi/g	*	dbs
Thorium 232	07/25/05 15:10	07/14/05 15:00	0.43	0.46	0.27	pCi/g	*	dbs

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Error(+/-)	Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

DUP	Sample Duplicate	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	*PBS*	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Matrix Spikes	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

H	Analysis exceeded method hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Replicate Error Ratio (RER) accepted because sample concentrations are less than 10x the MDL.
U	No nuclides detected above the Lower Limit of Detection (LLD)
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
X	QC is out of control. See Case Narrative.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method Prefix Reference

M	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.
D	ASTM
RP	DOE
ESM	DOE/ESM

Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

Western Water and Land, Inc. ACZ Project ID: ***L52094***

Project ID:

Alpha M9310 pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG193094																
WG192642PBS	PBS	07/22/05						.72	0.58	0.5			1			
WG192642LCSS	LCSS	07/22/05	RC041201-1	16.21				14	1.3	0.24	86.4	68	106			
L52094-01DUP	DUP-RPD	07/22/05			6.2	1.6	0.66	7.7	1.7	0.69					20	
L52094-01DUP	DUP-RER	07/22/05			6.2	1.6	0.66	7.7	1.7	0.69				0.64	2	
L52094-02MS	MS	07/22/05	RC041201-1	35.24	940	17	0.59	610	17	0.9	-936.4	43	142			M3
WG193025PBS	PBS	07/22/05						0	0.11	0.12			0.24			

Beta M9310 pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG193094																
WG192642PBS	PBS	07/22/05						.38	1.2	1.7			3.4			
WG192642LCSS	LCSS	07/22/05	PCN22221	40.04				43	2.7	1.6	107.4	80	125			
L52094-01DUP	DUP-RER	07/22/05			6.7	0.99	0.98	5.8	0.98	1				0.65	2	
L52094-01DUP	DUP-RPD	07/22/05			6.7	0.99	0.98	5.8	0.98	1					20	
L52094-02MS	MS	07/22/05	PCN22221	43.52	430	6	0.89	250	6.4	1.7	-413.6	67	121			M3
WG193025PBS	PBS	07/22/05						.06	0.28	0.39			0.78			

Radium 226 (3050) M9315 pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG193193																
WG192642PBS	PBS	07/25/05						0	0.22	0.77			1.54			
WG192642LCSS	LCSS	07/25/05	RC050402-3	23.92				25	1.6	0.94	104.5	67	147			
L52094-01DUP	DUP-RER	07/25/05			1.6	0.48	0.94	2.2	0.54	0.92				0.83	2	
L52094-01DUP	DUP-RPD	07/25/05			1.6	0.48	0.94	2.2	0.54	0.92					20	
L52094-02MS	MS	07/25/05	RC050402-3	50.88	320	5.6	0.85	230	5.7	1.2	-176.9	59	148			M3
WG193023PBS	PBS	07/25/05						.03	0.04	0.13			0.26			

Radium 228 (3050) M9320 pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG193493																
WG192642PBS	PBS	07/28/05						1.6	0.71	1.9			2			
WG192642LCSS	LCSS	07/28/05	RC040810-1	9.25				6.5	0.98	1.9	70.2	52	180			
L52094-01DUP	DUP-RER	07/28/05			1.7	1.7	4.4	3.2	1.4	3.8				0.68	2	
L52094-01DUP	DUP-RPD	07/28/05			1.7	1.7	4.4	3.2	1.4	3.8					20	
L52094-02MS	MS	07/28/05	RC040810-1	19.69	2.9	1.5	3.6	25	2.3	3.4	112.2	52	148			
WG193138PBS	PBS	07/28/05						.59	0.59	1.5			2			

Radiochemistry QC Summary

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

Project ID:

Thorium 230 ESM 4506 pCi/g

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec	Lower	Upper	RPD/RER	Limit	Qual
WG193272																
WG192642PBS	PBS	07/25/05						-.4	0.34	0.66			1.32			
WG192642LCSS	LCSS	07/25/05	RC041013-1	162.12				190	5.1	0.71	117.2	66	129			
L52094-01DUP	DUP-RER	07/25/05			0.77	0.58	0.76	1	0.51	0.6				0.3	2	
L52094-01DUP	DUP-RPD	07/25/05			0.77	0.58	0.76	1	0.51	0.6					20	
L52094-02MS	MS	07/25/05	RC041013-1	172.47	230	5.5	0.67	650	8.4	0.56	243.5	61	135			M1
WG193069PBS	PBS	07/25/05						.09	0.32	0.49			0.98			

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-01	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-02	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-03	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-04	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.

Western Water and Land, Inc.

ACZ Project ID: ***L52094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L52094-05	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-06	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-07	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L52094-08	WG193094	Gross Alpha	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
		Gross Beta	M9310	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193193	Radium 226 (3050)	M9315	M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The method control sample recovery was acceptable.
	WG193272	Thorium 230	ESM 4506	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.

Western Water and Land, Inc. ACZ Project ID: ***L52094***

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Uranium, total (3050)	M6020 ICP-MS

Radiochemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Thorium, Isotopic (3050)	ESM 4506

Soil Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Solids, Percent	CLPSOW390, PART F, D-98

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Western Water and Land, Inc.

ACZ Project ID: L52094
Date Received: 7/7/2005
Received By:
Date Printed: 7/7/2005

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?			X
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

SXS ABOVE BKGROUND.

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1148		23.5	60

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

SXS ABOVE BKGROUND

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Western Water and Land, Inc.

ACZ Project ID: L52094
Date Received: 7/7/2005
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG< 2	B < 2	BG< 2	O < 2	T >12	P >12	N/A	RAD
L52094-01	UP-BKG										X	
L52094-02	BFLY-01										X	
L52094-03	DUP										X	
L52094-04	BFLY-02										X	
L52094-05	BFLY-03										X	
L52094-06	BUR-1										X	
L52094-07	BUR-2										X	
L52094-08	BUR-3										X	

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

L52094

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: BILL MERRILL	Address: 743 HORIZON CT SUITE 330
Company: AAK	GRAND JUNCTION, CO 81506
E-mail: BILL.WWL@BRESNAN.NET	Telephone: (970) 242-0170

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: SAME	Address:
Company:	
E-mail:	Telephone:

PROJECT INFORMATION

Quote #: WESTWL-U-PEAK
Project/PO #:
Shipping Co.:
Tracking #:
Reporting State for compliance testing:

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	
UP-BKG	5-6-05; 1115	SO	1	QUOTE # TABLE 4 (ATTACHED)
BFLY-01	5-6-05; 1315	SO	1	" " " "
DUP	5-6-05	SO	1	" " " "
BFLY-02	5-6-05; 1350	SO	1	" " " "
BFLY-03	5-6-05; 1410	SO	1	QUOTE # TABLE 5 (ATTACHED)
BUR-1	5-6-05; 1650	SO	1	QUOTE # TABLE 4 (ATTACHED)
BUR-2	5-6-05; 1750	SO	1	QUOTE # TABLE 5 (ATTACHED)
BUR-3	5-6-05; 1810	SO	1	QUOTE # TABLE 4 (ATTACHED)

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	7-7-05; 1040	[signature]	7/7/05 1014
			7/7 1400

PAGE Of

FRMQA021.10.01.04

White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Quote

Bill Merrill
Western Water and Land, Inc.
743 Horizon Ct. Suite 330
Grand Junction, CO 81506

9/14/2004

Quote Number: TABLE-4

Matrix: Soil Table 4: Soil/rock ~4 samples

Parameter	Method	Detection Limit	Cost/Sample
Metals Analysis			
Antimony, total (3050)	M6020 ICP-MS	0.02 mg/Kg	$14.40
Arsenic, total (3050)	M6020 ICP-MS	0.05 mg/Kg	$14.40
Cadmium, total (3050)	M6020 ICP-MS	0.01 mg/Kg	$14.40
Chromium, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Copper, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Iron, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Lead, total (3050)	M6010B ICP	4 mg/Kg	$7.20
Manganese, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Mercury, total	M7471A CVAA	0.02 mg/Kg	$14.40
Molybdenum, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Nickel, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Selenium, total (3050)	M6020 ICP-MS	0.1 mg/Kg	$14.40
Silver, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Uranium, total (3050)	M6020 ICP-MS	0.005 mg/Kg	$14.40
Vanadium, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Zinc, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Misc.			
Diskette Preparation and Delivery			$0.00
Quality Control Summary			$0.00
Radiochemistry			
Gross Alpha & Beta	M9310	1 to 3 pCi/g	$35.20
Radium 226 (3050)	M9315	1 pCi/g	$56.40
Radium 228 (3050)	M9320	1.5 pCi/g	$82.00
Thorium, Isotopic (3050)	ESM 4506	0.2 pCi/g	$62.00
Soil Preparation			
Air Dry at 34 Degrees C	USDA No. 1, 1972		$3.20
Digestion - Hot Plate	M3050B ICP		$10.40
Digestion - Hot Plate	M3050B for Rad Chem		$10.40
Digestion - Hot Plate	M3050B ICP-MS		$10.40
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2		$5.60
		Cost/Sample	**$434.00**

D/ P/

TABLE 5

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Quote

Bill Merrill
Western Water and Land, Inc.
743 Horizon Ct. Suite 330
Grand Junction, CO 81506

9/14/2004

Quote Number: TABLE-5

Matrix: Soil Table 5: Soil/rock ~5 samples

Parameter	Method	Detection Limit	Cost/Sample
Metals Analysis			
Antimony (1312)	M6020 ICP-MS	0.0002 mg/L	$14.40
Antimony, total (3050)	M6020 ICP-MS	0.02 mg/Kg	$14.40
Arsenic (1312)	M6020 ICP-MS	0.0005 mg/L	$14.40
Arsenic, total (3050)	M6020 ICP-MS	0.05 mg/Kg	$14.40
Cadmium (1312)	M6020 ICP-MS	0.0001 mg/L	$14.40
Cadmium, total (3050)	M6020 ICP-MS	0.01 mg/Kg	$14.40
Chromium (1312)	M6010B ICP	0.01 mg/L	$7.20
Chromium, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Copper (1312)	M6010B ICP	0.01 mg/L	$7.20
Copper, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Iron (1312)	M6010B ICP	0.01 mg/L	$7.20
Iron, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Lead (1312)	M6010B ICP	0.04 mg/L	$7.20
Lead, total (3050)	M6010B ICP	4 mg/Kg	$7.20
Manganese (1312)	M6010B ICP	0.005 mg/L	$7.20
Manganese, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Mercury (1312)	M7470 CVAA	0.0002 mg/L	$14.40
Mercury, total	M7471A CVAA	0.02 mg/Kg	$14.40
Molybdenum (1312)	M6010B ICP	0.01 mg/L	$7.20
Molybdenum, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Nickel (1312)	M6010B ICP	0.01 mg/L	$7.20
Nickel, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Selenium (1312)	M6020 ICP-MS	0.001 mg/L	$14.40
Selenium, total (3050)	M6020 ICP-MS	0.1 mg/Kg	$14.40
Silver (1312)	M6020 ICP-MS	0.00005 mg/L	$14.40
Silver, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Uranium (1312)	M6020 ICP-MS	0.00005 mg/L	$14.40
Uranium, total (3050)	M6020 ICP-MS	0.005 mg/Kg	$14.40
Vanadium (1312)	M6010B ICP	0.005 mg/L	$7.20
Vanadium, total (3050)	M6010B ICP	0.5 mg/Kg	$7.20
Zinc (1312)	M6010B ICP	0.01 mg/L	$7.20
Zinc, total (3050)	M6010B ICP	1 mg/Kg	$7.20
Misc.			
Diskette Preparation and Delivery			$0.00
Quality Control Summary			$0.00

D/ P/

TABLE 5 (CONT.)

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Quote

Bill Merrill
Western Water and Land, Inc.
743 Horizon Ct. Suite 330
Grand Junction, CO 81506

9/14/2004

Radiochemistry			
Gross Alpha & Beta	M9310	1 to 3 pCi/g	$35.20
Radium 226 (3050)	M9315	1 pCi/g	$56.40
Radium 228 (3050)	M9320	1.5 pCi/g	$82.00
Thorium, Isotopic (3050)	ESM 4506	0.2 pCi/g	$62.00
Soil Preparation			
Air Dry at 34 Degrees C	USDA No. 1, 1972		$3.20
Digestion - Hot Plate	M3050B ICP		$10.40
Digestion - Hot Plate	M3050B for Rad Chem		$10.40
Digestion - Hot Plate	M3050B ICP-MS		$10.40
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2		$5.60
Synthetic Precip. Leaching Procedu	M1312		$54.40
		Cost/Sample	**$654.00**

D/ P/